

CLAIMS

1. A foil for a cathode of a capacitor, comprising:
an aluminum foil; and
5 a carbon-containing layer formed on a surface of said aluminum foil,
the foil further comprising:
an interposition layer that is formed between said aluminum foil
and said carbon-containing layer and contains aluminum and carbon.
2. The foil for a cathode of a capacitor according to claim 1, wherein
10 said carbon-containing layer includes therein an interposition material
containing aluminum and carbon.
3. The foil for a cathode of a capacitor according to claim 1, wherein
said carbon-containing layer is formed so as to extend outward from the
surface of said aluminum foil.
- 15 4. The foil for a cathode of a capacitor according to claim 1, wherein
said interposition layer constitutes a first surface portion that is
formed on at least a part of the surface of said aluminum foil and contains a
carbide of aluminum, and
said carbon-containing layer constitutes a second surface portion
20 that is formed so as to extend outward from said first surface portion.
5. A manufacturing method of a foil for a cathode of a capacitor,
comprising the steps of:
arranging an aluminum foil in a space containing a
hydrocarbon-containing substance; and
25 heating said aluminum foil.

6. The manufacturing method of a foil for a cathode of a capacitor according to claim 5, wherein said step of arranging the aluminum foil involves adhering at least one kind selected from the group consisting of a carbon-containing substance and an aluminum powder to a surface of the aluminum foil and, then, arranging the aluminum foil in a space containing a hydrocarbon-containing substance.

7. The manufacturing method of a foil for a cathode of a capacitor according to claim 5, wherein said step of heating the aluminum foil is carried out within a temperature range between 450°C or more and less than 660°C.